Specifications

Footlight FL-P1

Size	(W) 250mm x (D) 170mm x (H) 70mm
Weight	1.45Kg
Sound	Internal Mic
Power supply	220-240Vac adaptor to 9volt DC on controller
Output	DMX 512 protocol 64 channels

Dealer Stamp

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Made in England

www.ryger.co.uk

Ryger UK Ltd.

RYGER

Manufacture of Lighting Effects and Control Systems for the Entertainment Industries

FL-P1

100 pattern Pre-programmed
DMX RGB LED Effects Controller

User Manual

Description

The Footlight series are easy to use multi-function light controllers.
This footlight is ideal for mobile DJ's, bands & fixed installations or marquee illumination etc.
This FL-P1 features full sound chase, blackout, 100 chase sequenced patterns, speed control, two auto pattern modes, output dimming and RGB colour mixing for a preferred master flood.
It is designed to operate DMX enabled RED, GREEN, BLUE static LED fixtures, Parcans etc.
Minimal DMX knowledge is required by the user.

IMPORTANT
It is important that the set up instructions are fully read in this booklet as they will guide you through the various processes to connect your Ryger LED fixture controller to your LED products.

Connections

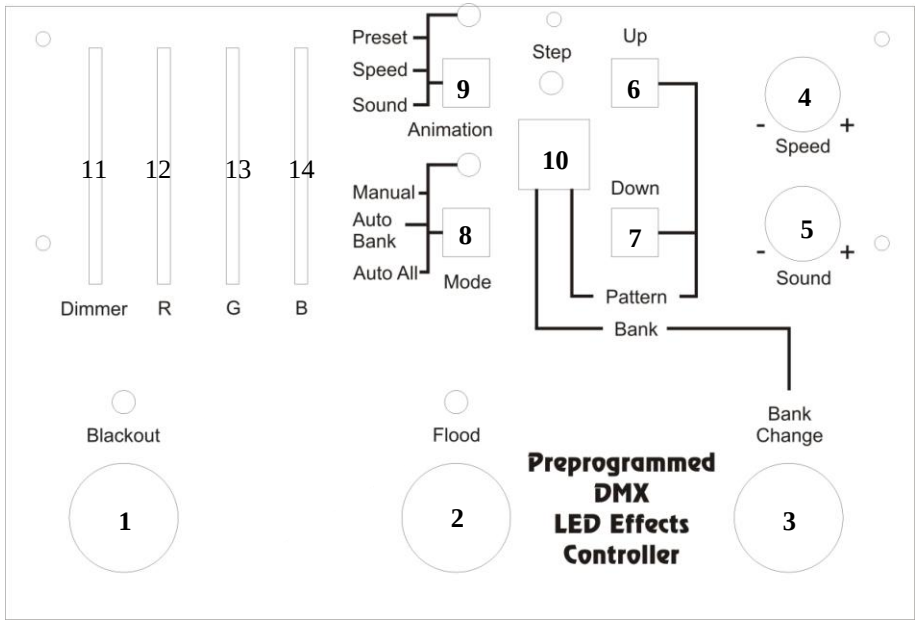
Mains Input:
Is via the 9v 500mA DC transformer supplied with this product.
Outputs:
Outputs are made via DMX 512 standard 3 Pin XLR socket. Pin1 = shield, Pin2 = cold -, Pin3 = hot +
The serial port is for future PC support (not openly available at the moment)
Sound Input:
The controller has its microphone and does not require any external connections to source sound input

Setup

Read this fully - Minimal DMX knowledge is required by the user.
8 fixtures can be controlled separately with this unit.
All fixtures you use should ideally be of the same manufacture type or must operate on the same RGB channels – check user manuals for this information if you are mixing different fixture types (not advised without DMX knowledge).

The FL-P1 can be configured for 10 different profile types of LED parcans/bars/panels.
The list supplied will help you choose which type is required and give the corresponding code number that you will need to use to configure the controller for first use.
PROFILE CODES FOR VARIOUS FIXTURES ARE SHOWN IN THE SEPARATE LIST.

To first configure the FL-P1 you need to hold down the FLOOD button & then power up the controller, then release the button. The display will now show **d0**, **d1,** etc. Using the **Blue** UP and DOWN **Pattern** buttons cycle through the options until the number in the display matches the required profile of your fixtures.
Now press and release the FLOOD button again to restart the controller.
On powering up the chosen fixture code will flash briefly.
It will now remember this setting until such times as it is reset or the user changes it.
This can be easily changed to different makes by repeating the above procedure. Providing that all 8 fixtures use the same profile they will then operate correctly and access all 100 patterns within the unit.



1. BLACKOUT BUTTON
2. FLOOD OVERRIDE BUTTON
3. BANK CHANGE BUTTON
4. SPEED CONTROL
5. SOUND CONTROL
6. UP PATTERN BUTTON
7. DOWN PATTERN BUTTON
8. AUTO/MANUAL FUNCTION BUTTON
9. ANIMATION TYPE FUNCTION BUTTON
10. LED DISPLAY
11. MASTER DIMMER
12. RED FADER (only used when setting up master flood)
13. GREEN FADER (only used when setting up master flood)
14. BLUE FADER (only used when setting up master flood)
15. 3 PIN DMX OUTPUT (on left side)
16. 9 VOLT 500Ma POWER SUPPLY INPUT (on right side)
17. Serial port (currently not used) (on right side)

Optional wall fixing kit available from Ryger

DMX VALUES AND SETTINGS

In order to gain the most from the controller all of the fixtures have to be assigned their own DMX settings. This will either be with dip switches or a digital setting on your fixtures.
Most of the LED parcans that are on the market currently run on 4 or 5 DMX channels.
A channel for red, blue, green and occasionally one for the master dimmer & presets.
But the FL-P1 runs all fixtures as using 8 channels of DMX to incorporate the par-bars & panels and such like that use more channels. So the address settings are always working from 8 channels.
Below is a guide on how to set your fixtures starting address or dip switches.

■ = DIP ON □ = DIP OFF

DIPS SETTINGS								DIGITAL
Fixture 1								
1	2	3	4	5	6	7	8	**001**
■	□	□	□	□	□	□	□	
Fixture 2								
1	2	3	4	5	6	7	8	**009**
■	□	□	■	□	□	□	□	
Fixture **3**								
1	2	3	4	5	6	7	8	**017**
■	□	□	□	■	□	□	□	
Fixture 4								
1	2	3	4	5	6	7	8	**025**
■	□	□	■	■	□	□	□	
Fixture 5								
1	2	3	4	5	6	7	8	**033**
■	□	□	□	□	■	□	□	
Fixture 6								
1	2	3	4	5	6	7	8	**041**
■	□	□	■	□	■	□	□	
Fixture 7								
1	2	3	4	5	6	7	8	**049**
■	□	□	□	■	■	□	□	
Fixture 8								
1	2	3	4	5	6	7	8	**057**
■	□	□	■	■	■	□	□	

Fixture Codes

The separate list of profile codes is a small selection of the most common fixture types.
For a detailed fixture list visit www.ryger.co.uk

d0, d1, d2, d3, d4, d5, d6, d7, d8, d9 are the options available. If you are unsure you can simply retry every profile in turn with your fixture connected, restarting the controller each time. To check the setting is correct hold down the BANK CHANGE button until 'FA' appears in the display. You can now operate the RGB sliders one at a time and see if the corresponding colour illuminates on your fixture. If they all operate correctly then that is the profile to use, if they do not operate correctly then try another profile number. Hold down the BANK CHANGE button to exit the 'FA' setup.

If you correctly identify an unlisted fixture to a profile please email the details to sales@rygeruk.com so that it can be added to the profile list. If you require a custom profile contact Ryger for a costing.

Controlling Patterns

Blackout button

The BLACKOUT button **(1)** provides an instant blackout of all lights connected to this unit. It will override all other programs and black out all fixtures that are in use.

Flood button

The FLOOD override button **(2)** will flood all fixtures in one easy movement, simply push the button to flood and push again to release back to the previously running sequence.
This FLOOD button can be user programmed with a favourite flood pattern.

Bank change button

The BANK change button **(3)** has the function of allowing a user to change through the various different BANKS manually at the the touch of a button. This will jump in turn to the pre-selected pattern in each of the banks at each press of the button.

Adjust Pattern Speed or Sound Chase:

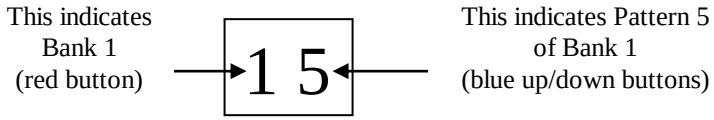
This is done by using the blue ANIMATION (9) button - each time this is depressed the associated LED indicator will show what mode of stepping the unit is utilizing.

LED off = Default factory preset speeds
LED on = Manual Speed adjustable using the rotary (4)
LED blinking = Sound chase operating, adjust sound sensitivity using the rotary (5)

The STEP LED indicator blinks everytime the controller pulses/steps through a pattern.

Reading the display in normal use

The display (10) is easy to understand, at the start it will appear flashing as **d0** or **d1** etc. This is informing you that the controller is set up for devices of this type as listed in the manual.
Once the start up sequence has initiated the numbers in the display change & represent the BANK selection and the PATTERN number i.e. 15.(see example below).
As you start to use the controller you will find these numbers are very useful - they enable you to select a favourite PATTERN from within each of the 10 BANKS.
To configure these simply go to each BANK in turn by briefly depressing the **Red** BANK (3)button and then select a desired pattern using the **Blue** UP & DOWN **Pattern** (5)or(6) buttons.
You do not need to save this pattern, the controller does it when you move to a different bank – it always remembers what you had previously selected in each bank & when you return the pattern will be waiting for you, even when you power off.



Programming and other functions

Pattern change

PATTERN changes within a BANK are done manually with the blue up/down buttons (6) and (7).
There are 10 PATTERNS within each of the 10 BANKS giving a total of 100 patterns.
The MODE Button (8) allows the controller to scroll through the 10 banks automatically .
There are three modes of operation :-
LED off = Manual control. Press the BANK CHANGE (3) button briefly to change bank.
LED on = Scrolls through 10 banks automatically (i.e. your 10 chosen patterns).
LED blinking = Scrolls through all 100 patterns automatically.

Programming your favourite pattern in each bank

The pattern programming of this unit is very simple.
In manual mode just choose a favourite PATTERN using the UP & DOWN buttons then after pressing the BANK CHANGE button the controller will remember which pattern you have chosen and every time you return to that bank your favourite pattern will run. Repeat this procedure for each bank. Favourites are stored even after powering off the FL-P1.

Pattern Descriptions

The seperate list of the 100 pattern/flood locations indicates what is available in any particular bank. If you lose this list check our website for info www.ryger.co.uk

Dimming

The controller has a master dimming control (11), which can be varied from off to full brightness.
The master dimmer affects all channels, the amount of slider adjustment required depends on the fixture type being used – some are more sensitive than others so this particular sliders effect will vary between manufacturers. Use it to take the bright edge off your parcans when in small venues.
This dimming function can be used at any time with any bank or scene and will not interfere with the program chase that is currently running.
This slider does not operate once the FLOOD override button (2) has been depressed in normal use.

Setting the FLOOD overide button

The FLOOD button (2) can be easily set up for a personal favourite flood pattern.

The controller has a separate RED(12) GREEN(13) BLUE(14) level control for each of the three channels, which can be varied from off to full brightness.
The dimmer level for channel one for instance can be altered by sliding the fader up or down to achieve the required brightness or several sliders can be moved to create colour mixing, for example push the red slider up it will turn all fixtures red, blue slider up will turn all fixtures blue, green up fixtures become green, red green blue up at the same time will make white.
The Dimmer slider also effects the overall brightness.

To set this button up for a personal FLOOD combination you must press and hold the BANK CHANGE button (3) for a few seconds until "**FA**" (**F**ixtures **A**ll) appears in the display. This means that any movement on the sliders will effect ALL FIXTURES. Using the blue UP (5) and DOWN (6) buttons you can select individual fixtures "**F1** to **F8**", now moving the sliders only adjusts this particular fixtures colour & brightness.
Cycle through the fixtures adjusting the colour & brightness as you go.
When all fixtures have been adjusted hold down the FLOOD (2) button until "**SF**" is briefly displayed to save the flood combination you have created.
Now press and hold the BANK CHANGE button (3) again for a few seconds, the controller will exit the flood setup returning to normal use. Now everytime the FLOOD button (2) is pressed you will see your personal flood combination on your fixtures.

Linking fixtures together

You will need to link your fixtures and the controller together in a "daisy chain" from one fixture to another using standard 3 pin XLR cables. Then after setting the dip switches or starting address they will need plugging into their power source.
Instructions on the following page explain setting the address.

If you wish to use more than 8 fixtures you will need to duplicate the address settings on the extra fixtures, these will then operate in tandem with the first 8 fixtures.

Some manufactures reverse the hot and cold pins 2 & 3 on XLR connections, if this is the case with yours you will need to make a reversing lead up with one end having wires to pins 2 & 3 swapped over.